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- 1 [A concept analysis inspired greedy algorithm for test suite minimization](#)  
[Sriraman Tallam](#), [Neelam Gupta](#)  
 January 2006 **PASTE '05: Proceedings of the 6th ACM SIGPLAN-SIGSOFT w**  
 for software tools and engineering

**Publisher:** ACM [Request Permissions](#)

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Software testing and retesting occurs continuously during the software  
 errors as early as possible and to ensure that changes to existing softwa  
 Test suites once developed are reused and updated ...

**Keywords:** concept analysis, test cases, test suite minimization, testing

Also published in:

 January 2006 **SIGSOFT Software Engineering Notes** Volume 31 Issue 1

- 2 [Model-Based Tests of Truisms](#)  
[Tim Menzies](#), [David Ruffo](#), [Siri-on Setamanit](#), [Ying Hu](#), [Sina Tootoonian](#)  
 September 2002 **ASE '02: Proceedings of the 17th IEEE international confer**  
 engineering

**Publisher:** IEEE Computer Society

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Software engineering (SE) truisms capture broadly-applicable principles  
 trouble with truisms is that such general principles may not apply in spe  
 the specificity of two SE truisms: (a) increasing ...

- 3 [A safe, efficient regression test selection technique](#)  
[Gregg Rothermel](#), [Mary Jean Harrold](#)  
 April 1997 **Transactions on Software Engineering and Methodology**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (730.74 KB)

 Additional Information: [full citation](#), [abstract](#), [r](#)  
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Regression testing is an expensive but necessary maintenance activity to provide confidence that changes are correct and do not adversely affect software. A regression test selection technique chooses, ...

**Keywords:** regression test selection, regression testing, selective retests

4 [Communications of the ACM: Volume 51 Issue 4](#)

April 2008 Communications of the ACM



**Publisher:** ACM

Full text available: [Digital Edition](#), [Pdf \(4.24 MB\)](#) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 447, Downloads (12 Months): 3020, Citations

5 [A survey of structured and object-oriented software specification methods](#)

Roel Wieringa



December 1998 **Computing Surveys (CSUR)**, Volume 30 Issue 4

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf \(605.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 75, Downloads (12 Months): 514, Citations

This article surveys techniques used in structured and object-oriented software specification. The techniques are classified as techniques for the specification of external decomposition. The external specification techniques ...

**Keywords:** languages

6 [Experience in using business scenarios to assess COTS component compatibility](#)

Sharon Lymer, WenQian Liu, Steve Easterbrook

October 2005 **CASCON '05: Proceedings of the 2005 conference of the Canadian Collaborative research**

**Publisher:** IBM Press

Full text available: [Pdf \(2.99 MB\)](#) Additional Information: [full citation](#), [abstract](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 79, Citations

Constructing software by integrating commercial off-the-shelf (COTS) components is particularly in the IT service industry. For vendors of COTS components this is particularly challenging. To continually improve ...

**Keywords:** business scenario, commercial-off-the-shelf (COTS), software integration

7 [Security as a new dimension in embedded system design](#)



Paul Koehler, Ruby Lee, Gary McGraw, Anand Raghunathan / Srivaths Ravuri  
June 2004 **DAC '04: Proceedings of the 41st annual conference on Design Automation Conference**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf \(209.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 61, Downloads (12 Months): 496, Citations

The growing number of instances of breaches in information security in a compelling case for efforts towards secure electronic systems. Embedded systems are ubiquitously used to capture, store, manipulate, and ...


**Keywords:** PDAs, architectures, battery life, cryptography, design, device management, embedded systems, performance, security, security protocols, sensors, software attacks, tamper resistance, trusted computing

## 8 Understanding Tradeoffs in Software Transactional Memory

Dave Dice, Nir Shavit

March 2007 **CGO '07: Proceedings of the International Symposium on Code Generation and Optimization**

**Publisher:** IEEE Computer Society

Full text available:  Pdf (219.87 KB) Additional Information: full citation, abstract, review

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 159, Citations: 1


There has been a flurry of recent work on the design of high performance hardware/software transactional memories (STMs and HyTMs). This paper discusses the design decisions behind several of these state-of-the-art algorithms, adopting a

## 9 Agile enterprise software development using domain-driven design

Einar Landre, Harald Wesenberg, Jörn Oimheim

October 2007 **OOPSLA '07: Companion to the 22nd ACM SIGPLAN conference on Object-Oriented Programming Systems and Applications**

**Publisher:** ACM 

Full text available:  Pdf (312.94 KB) Additional Information: full citation, abstract, review

**Bibliometrics:** Downloads (6 Weeks): 42, Downloads (12 Months): 350, Citations: 1

In this paper we present the experience gained and lessons learned when applying Domain-Driven Design (DDD) to agile software development practices to assess the

**Keywords:** PL/SQL, agile software development, domain-driven design, relational mapping, oracle, relational databases, test driven design, test

## 10 On test suite composition and cost-effective regression testing

Gregg Rothermel, Sebastian Elbaum, Alexey G. Malishevsky, Praveen Kalla

July 2004 **Transactions on Software Engineering and Methodology**

**Publisher:** ACM 

Full text available:  Pdf (1.02 MB) Additional Information: full citation, abstract, review

**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 320, Citations: 1

Regression testing is an expensive testing process used to revalidate software. Several methodologies for improving regression testing processes have been proposed. The effectiveness of these methodologies has been shown to vary ...

**Keywords:** Empirical studies, regression testing, test suite composition

## 11 Automated consistency checking of requirements specifications



Constance L. Heitmeyer, Ralph D. Jeffords, Bruce G. Labaw

July 1996 **Transactions on Software Engineering and Methodology****Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (404.39 KB)Additional Information: [full citation](#), [abstract](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 228, Citations

This article describes a formal analysis technique, called consistency checking, for the detection of errors, such as type errors, nondeterminism, missing cases, and circular specifications. The technique ...

**Keywords:** application-independent properties, consistency checking, formal software cost reduction methodology, tabular notations

### 12 [HOTTest: A model-based test design technique for enhanced testing applications](#)



Avik Sinha, Carol Smidts

July 2006 **Transactions on Software Engineering and Methodology****Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (1.40 MB)Additional Information: [full citation](#), [abstract](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 249, Citations

Model-based testing is an effective black-box test generation technique. Model-based testing techniques, however, fail to capture implicit domain knowledge and overly rely on software artifacts such as design ...

**Keywords:** Haskell, HaskellDB, Test case generation, database-specific testing, domain-specific testing, model-based testing, test generation

### 13 [Queue: Volume 6 Issue 1](#)



January 2008 Queue

**Publisher:** ACMFull text available: [Digital Edition](#), [Pdf](#) (6.04 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 112, Downloads (12 Months): 563, Citations

### 14 [Proceedings of the conference on Design, automation and test in Europe](#)



Donatella Sciuto

March 2008 **DATE '08: Proceedings of the conference on Design, automation and test in Europe****Publisher:** ACMAdditional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citations

Welcome to the DATE 08 Conference Proceedings. DATE combines the systems design conference and Europe's leading international exhibition on automation and test, from system level hardware and software ...

### 15 [A life-cycle perspective on online community success](#)



Alicia Triberri, Gordy Leroy




February 2009 **Computing Surveys (CSUR)**, Volume 41 Issue 2

**Publisher:** ACM  [Request Permissions](#)  
**Full text available:**  [Pdf \(1.50 MB\)](#) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)  
**Bibliometrics:** Downloads (6 Weeks): 322, Downloads (12 Months): 743, Citations: 1

Using the information systems lifecycle as a unifying framework, we review research and propose a sequence for incorporating success conditions and development to increase their chances of becoming a successful community.

**Keywords:** Online communities, lifecycle, literature review, success factors


## 16 Communications of the ACM: Volume 52 Issue 2

 February 2009 **Communications of the ACM**  
**Publisher:** ACM  
**Full text available:**  [Digital Edition](#),  [Pdf \(7.09 MB\)](#) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)  
**Bibliometrics:** Downloads (6 Weeks): 759, Downloads (12 Months): 2788, Citations: 1

## 17 Motivation and challenges


 Dave Kasik  
 August 2007 **SIGGRAPH '07: SIGGRAPH 2007 courses**  
**Publisher:** ACM  [Request Permissions](#)  
**Full text available:**  [Pdf \(5.32 MB\)](#) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)  
**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 265, Citations: 0

## 18 Software Testing Research: Achievements, Challenges, Dreams

Antonia Bertolino  
 May 2007 **FOSE '07: 2007 Future of Software Engineering**  
**Publisher:** IEEE Computer Society  
**Full text available:**  [Pdf \(716.35 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)  
**Bibliometrics:** Downloads (6 Weeks): 195, Downloads (12 Months): 1936, Citations: 1


Software engineering comprehends several disciplines devoted to prevent errors and to warrant adequate behaviour. Testing, the subject of this paper, is an approach in industry, but it is still largely ad hoc, expensive, ...

## 19 Tutorial on agent-based modeling and simulation


Charles M. Macal, Michael J. North  
 December 2005 **WSC '05: Proceedings of the 37th conference on Winter simulation**  
**Publisher:** Winter Simulation Conference  
**Full text available:**  [Pdf \(1.35 MB\)](#) **Additional Information:** [full citation](#), [abstract](#), [bibliometrics](#)  
**Bibliometrics:** Downloads (6 Weeks): 159, Downloads (12 Months): 1463, Citations: 1

Agent-based modeling and simulation (ABMS) is a new approach to model autonomous, interacting agents. ABMS promises to have far-reaching effects as businesses use computers to support decision-making and researchers use

## 20 Chemoinformatics—an introduction for computer scientists

 Nathan Brown  
 February 2009 **Computing Surveys (CSUR)**, Volume 41 Issue 2

**Publisher:** ACM  [Request Permissions](#)

**Full text available:**  [Pdf \(1.71 MB\)](#)

**Additional Information:** full citation, abstract, c

**Bibliometrics:** Downloads (6 Weeks): 372, Downloads (12 Months): 1078, Cite

Chemoinformatics is an interface science aimed primarily at discovering will ultimately result in the development of novel treatments for unmet same methods are also applied in other fields that ...

**Keywords:** Chemoinformatics, QSAR, chemometrics, docking, drug dis

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